Farm-Yard Manure.

Farm-yard manure is a general manure; it is also termed a complete manure because it supplies all the essential elements of plant food. Its composition varies according to the character of the animals contributing to it, the quality of their food and the nature and the proportion of the litter. Its value also depends upon the method in which it has been prepared.

Farm-yard manure consists of the liquid and solid excrements of the farm stock and the straw, sawdust or other material employed as litter. It will contain from 65 to 80 per cent. of water. The nitrogen may be 0.40 to 0.65 per cent., or higher, if produced by highly-fed animals. The ash constituents will be 2.5 to 3.0 per cent., exclusive of the sand and earth present. Of these ash constituents 0.4 to 0.7 will be potash a sufficient stimulus to these mountainand 0.2 to 0.4 phosphoric acid. In a word, one ton of farm-yard manure will supply, according to conditions already specified, from nine to fifteen pounds of nitrogen, a similar amount of potash and from four to nine pounds of phosphoric acid.

A consideration of some of the causes that affect the quality of barn-yard manure may assist the inexperienced farmer. An animal neither gaining nor losing weight, as a working-horse, will produce excrements containing about the same amount of nitrogen and ash constituents as was present in the food animal is increasing in size, is producing ture. young or furnishing milk or wool, the nitrogen and ash constituents in the excrements will be less than those contained in the food, the difference appearing as animal increase. In a word, the farmer will not obtain as rich a manure from a cow in full milk, or from a only remain as faint glimmerings of produce great changes in relation to rapidly growing pig, as from his working horse with the same food.

Even more than the character of the animal does the character of the food affect the quality of manure. A diet, for instance, including a liberal amount of oil-cake or beans, will yield a manure rich in nitrogen and ash constituents, the Eastern States. This shows how when a diet of maize and straw chaff will produce a manure poor in nitrogen and phosphates. The constituents of food which are important as ingredients of manure are the nitrogen and ash elements, but chiefly the nitrogen, this being the most costly ingredient of commercial fertilizers. Oil-cakes yield the richest manure. Next to these come the leguminous seeds, molt dust, and bran. Clover hay yields a richer manure than the cereal grains, while meadow hav is rated below these. The cereal grains and the roots contain about the same proportion of nitrogen in their dry substance, but the roots supply more potash. Potatoes stand below roots in manurial value, and straw takes the lowest place as a manure-yielding food. Bean and pea straw are more valuable for this purpose than the straw of the

Many scientists and not a few farmers believe that animal manure is more im- says: mediately available for the use of plants when applied directly to the land than when applied directly to the land than when prayiously mixed with a great with a bulk of litter, as fermentation with litter the lungs has been filled to its utmost corn. They are deficient in warmth or probably results in the formation of capacity. Once, at least, each day this moisture, or in both. Corn was never nitrogenous humus compounds, which should be done by active exertion, such a profitable crop to raise in the Southern are insoluble and decompose but slowly as a sharp, but not distressing, run, in the soil. The use of litter in the increasing gradually until two or three preparation of farm-yard manure is, hundred yards are covered at full speed, however, a necessity, especially in the or from half a mile to a mile at a steady

winter time. assert that the immediate return from an application of form yerd manufacture as a strip of an application of form yerd manufacture. It is embraced in a strip of an application of farm-yard manure is ning, however, some may prefer spar- country about two hundred miles wide, much less than from the same amount of ring. This is capital exercise for the and terminating about a hundred miles plant food applied in artificial manures. The effect of farm-yard manure, shoulders. A live opponent is not however, is spread over a considerable number of years.

ment of manures. Serious losses occur only intermittently, whereas it should of the land in the Western States that is constantly through ignorance in this be carried on daily, and for a limited capable of producing the largest crops matter. Bear in mind a large proportion of the nitrogen is voided in the form of urine. If, therefore, the manure stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the early stout cord from the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if there is a lit is covered with water in the ceiling (if th is wasted, by rain, and the washings are beam to it, or from a cord stretched spring, and can not be plowed till it is allowed to drain away, loss occurs. It must also be recollected that the urea, of the room), will make a capital dumb danger of an early frost in the fall. By which forms the chief nitrogenous ingredient of urine, is speedily changed the height of the chin, so that its highest produce more corn than any land in the by fermentation into a volatile substance that escapes unless held by a sufficient amount of litter. Farm-yard manure rapidly undergoes fermentation and a large quantity of carbonic acid is given off. When the fermentation occurs in a catch it "a good one" as it flies back carry off this water, but will extend the place protected from rain, however, but little loss of nitrogen takes place .- N. Y. World.

Ranch Farming.

As the traveler approaches the Rocky Mountains from either side he finds that the words farms and farming have become obsolete among the inhabitants, and that ranch and ranching, from the Spanish rancho, have taken their place. In the valleys among the mountains the ranches are necessarily limited in extent, and nearly all the tillable lands are confined to narrow strips, bordering some rivulet or larger stream coming down from the peaks. not be depended upon to supply the requisite amount of moisture necessary cellent wheat can be grown, but the Chinese servants, even sitting on the are cool; consequently there are few and cauliflowers, grow to a large size, most congenial soil and climate in the valleys of the Rocky Mountains.

ranchmen indolent and careless of all canyon in the spring, plow up the virgin soil near a brook, plant a few acres of potatoes, fix a ditch to supply the plants with a little extra moisture.

When the leprous sores are still on the cheers and encouragements of the villagers. A few more such factories and give wide spread to the infection. Clothes washermen the same.

—San Francisco Letter.

Christian Union.

and then return home, never visiting the spot again until digging time in the fall. If everything goes well, an excellent crop and a large yield will be secured, but it does not seem to disturb the ranchman's peace of mind if he fails in this kind of farming three years out of four. The quality of the potatoes raised in in nearly every State and territory. In these elevated regions is generally ex- most of the States enough was raised to cellent, and much superior to those supply the local demand. In some raised on the plains or rich prairie soils at a lower altitude, and they always command a ready sale and good prices in the mining camps scattered over a region of country several thousand miles to the growing of cotton, tobacco, and

in extent. prices obtained by the ranchmen sufficiently high to be quite remunerative, especially when so little labor is expended to produce a crop; but high prices and the great yield do not appear to be eers to make them extend their plantations or exert themselves to give their crops better care. Perhaps there is something in the climate which is depressing to one's spirits, or nature is too prodigal in her gifts, but whatever may be the cause, it is certain that the Western ranchmen are about as indolent and easy-going a class of men as can be found in America. They are satisfied to live in miserable huts, partly because they can not afford to build better, and partly because after a few years their tern cities. Corn was often so cheap aspirations do not reach above a log and plenty that it was burned for fuel. house or a dugout and enough coarse consumed. If, on the other hand, the food to supply the actual needs of na-

> Strange as it may seem, the larger proportion of these ranchmen are East- of the country where corn was very proern men, accustomed in their younger days to the comforts and associations of refined society; but for some unaccountable reason the aspirations of their youth ideas long since abandoned. They appear to enjoy their crude, half-civilized life, and we have heard many of them say that they would not exchange their alcohol, whisky, highwines and vinegar. rude huts and free and easy mode of iving for all the luxuries to be obtained in the older and more thickly settled of easy it is for the human race to return to barbarism. Some of our readers mutton for export and home consumpmay think that they would do differently if placed under similar circumstances; but we doubt it, for there is something in the climate and surroundings of the Western ranchman that prevents his going further or advancing any higher in the scale of refinement than the position in which we find him. We do not say that he is an ignoramus, for there are college graduates and good scholars among them; but they soon become rusty, probably from their rusty sur- have increased and multiplied in a most roundings .- N. Y. Sun.

Sparring for Health.

Get Strong," the writer recommends opened up to settlement, but no corn is sparring as an excellent form of exer-cise for strengthening the chest. He localities. Dakota and Montana are sary Medical Association, Buffalo, N. Y.

swing. But any run long enough to set chest, and is good also for the arms and needed-in fact, is not desirable; for is to be largely increased it must be done where there is one the exercise is apt to by improved methods of cultivation in A most important point is the treat- be continued too long and repeated the places where it succeeds best. Much between two high nails on opposite sides too late to plant without incurring the boxer. The bag should hang at about draining it with tiles it can be made to part is opposite the eyes and its lowest country. It is naturally rich in mineral part opposite the chest. Pound away at and organic matter, and its only defect this as if it were the head and shoulders | is its inability to part with the moisture of a living opponent. Hit out from the that accumulates during the winter and shoulder so that it flies up to the ceiling; early spring. The drains will not only toward you; advance a step, and hit it growing season several weeks. Experiso that at the next rebound it flies over ments made in the counties of this State your head; spring sharply round, and show that the average yield of corn is meet it on that side; hit it upward till increased one-fourth by putting down the cord loops; hit it round arm, so that grain-tile. The cultivation of the crop if you are not quick enough it catches is also rendered more easy and the oryou on the back of the head. In five dinary risks are avoided in a great minutes' time (which, later, you may measure. Improved methods of preextend to ten,) you will be puffing and paring the soil, of putting in the seed, panting like the conventional grampus. and of cultivating the growing crop You can then rest, or turn to some other will do much toward increasing less active exercise.

Leprous Cigarettes.

Francisco, has not a few victims among better, pay more attention to manuring, These streams are fed by the melting the whites. Especially it is revealing and employ the hand-hoe in connection snows in summer; and although the itself about the lips and tongues of boys with the horse-cultivator in working the water is generally exceedingly cold, it answers very well for irrigating the hot, Chinese lepers. The disease, though tical to produce eighty bushels of corn black soils of the valleys, as rains can fatal, is slow in giving tokens of its first to the acre on much of the land in the approaches. The doctor knows of 170 West where only forty is ordinarily harcases, the majority largely Mongolian. for producing any kind of farm or gar- The disease is highly contagious. Sleepden crop. In some of the valleys ex- ing in bed clothes handled by infected most common and profitable crops are chairs they have used, handling the oats, millet or hay, potatoes, and nearly same things, etc., is dangerous. The all kinds of garden vegetables, with the disease often is not observable for four exception of those requiring a long or five years, and then only by physiseason and great heat. Everywhere in cians accustomed to examining such the mountains and valleys the nights patients. In the Sandwich Islands, where it prevails, an island is set apart localities where any except the earliest for lepers. The hospital has at this time varieties of corn succeed, or tomatoes eight hundred lepers. A vigilant eye and melons will ripen; but peas, beets, is kept on the lookout for traces of incarrots, and all the varieties of cabbages | cipient leprosy. When observed the person is at once sent to the hospital, and are of excellent quality. All of the but a great many are concealed by cabbage tribe of plants appear to find a friends, and thus the disease spreads. No case is discharged cured, unless it be true that quite lately some few re-The extreme fertility of the soil of the cent cases have been cured. Report valleys and the absence of noxions says they were affected by eucalyptus dealer the price of a sofa. The dealer weeds have a tendency to make the leaves. One doctor claims to have coun- told him he could have the sofa for teracted recent developments in inocu- nothing, if he would carry it home. things pertaining to the cultivation and lation. The leper does not suffer much Much to his surprise the minister shoulcare of crops. We have known men pain till his fingers and toes drop off. dered the sofa and carried it to the par-residing on the plains to go into some When the leprous sores are still on sonage, amid the cheers and encourage-

Increasing the Corn Crop.

Till within the past few years little anxiety has been felt in any part of the country about the supply of corn. There was a general impression that it could states it was a leading crop, and it was that its profitable production could be greatly extended in others, where the attention of farmers was mainly devoted the small grains. There was scarcely An Eastern farmer would consider the any demand for it for exportation, and its employment for making glucose and starch was not known. It was used to newers, and a perfect blood purifier. a considerable extent as food for human beings, and was very generally employed for fattening hogs in sections where it was extensively grown. It was rarely fed to other horses than those engaged in work on the farm, and was still more rarely fed to cows. There was no fresh beef or mutton sent abroad, and there was only a limited demand for highly fattened meat at home. As a consequence, sheep and steers were generally fattened on grass, with the aid of a few roots. In most of the Western States corn was a drug in the markets. With poor facilities for transportation, comparatively little of it was sent to Eas-Farmers preferred to raise small grains for the market, for the reasons that their price was higher and they would stand transportation better. In parts ductive it was generally thought that the business of raising it was greatly overdone.

A short time has been sufficient to Its uses have multiplied and increased, it is now employed to make starch and glucose, as well as to make Considerable quantities of it are converted into malt. In all the great dairy districts it is extensively employed for feeding milch cows. There is a growing demand for fancy fattened beef and tion. To fatten steers and sheep as the market requires it is found necessary to feed corn in large quantities. Vast quantities of it are now sent to almost every country in Europe this side of Russia for the same purpose. American corn is used to feed both beef and dairy cattle in Denmark. It is also used to feed the coach and dray horses in most of the large cities in Great Britain and France. Now, while the uses for corn remarkable manner, its cultivation has not extended in any considerable extent | druggists. into any new sections of the country. and has not greatly increased in foreign countries. The entire country from In an article in Knowledge, "How to Puget Sound to the Gulf of California is fast being peopled with farmers, yet great three times each day-every air-cell of States and Territories produce much States, and as the soil becomes no more. Too often the causes are disorders exhausted of its fertility its production becomes still more difficult. People have finally become convinced that the extent of country adapted to the west of the Missouri River.

If the amount of corn in the country production. Generally the farmers of Pennsylvania, and others of the Eastern States produce more corn to the acre than the farmers do in the most fertile of the Western States. They have a Leprosy, says a physician of San much poorer soil, but they prepare it rested .- Chicago Times.

Where Sheep Lose Their Wool.

Sheep will lose their wool in the second year that they are on this island. No matter where they are brought from, they will become as woolless as goats. Lambs dropped here will retain wool just about the same length of time, when their woolly coats become nothing else but a soft, short hair, like in every respect to that of a goat. We knew before that there were woolless sheep, but did not think that an importation of any kind to a strictly tropic clime would result as above -Key West Democrat.

-The pastor of a certain church at Hempstead, L. I., asked a furniture

Physical Perfection.

You can be made strong in all your parts You can strengthen the digestive organs, cure dyspepsis, and prevent those varying attacks of constipation and diarrhea. You can strengthen the urinary system and care all such symptoms of weakness as bad dreams, be raised with considerable profit in mlky urine, etc. You can strengthen the treme feeling of debility. You can strengthen your mental faculties and improve your mem ory. You can strengthen your muscular system and increase your power of endurance. In a word, you can be an example of physical perfection if you desire, by using a scientific combination of Yellow Dock, Sarsaparilla, Juniper, Buchu, Iron, Celery and Calisaya, all of which ingredients enter into the composi tion of Dr. Guysott's Yellow Dock and Sarsa-parilla, and makes it Nature's best assistant in curing all forms of organic diseases, enti-tling it to be called the Queen of all health Re-

Is a maiden says she is twenty, yet looks fifty, add the figures together, divide by two, and you will 'aver age.

A MINISTER writes: "From hard study and close application to the duties of a protracted revival, my health suffered severely. I took a vacation and tried to win back health and state of general weakness and prostration. A friend presented me with a bottle of Dr. Guy-sott's Yellow Dock and Sarsaparilla. Its effect has been wonderful, and although I decline having my name published I will speak a good word for this medicine at every opportunity."

A SLEEPER is one who sleeps. A sleeper i that in which the sleeper sleeps. A sleeper is that on which the sleeper which carries the sleeper while he sleeps runs. Therefore while the sleeper sleeps in the sleeper the sleeper carries the sleeper over the sleeper under the sleeper until the sleeper which carries the sleeper jumps off the sleeper and wakes the sleeper in the sleeper by striking the sleeper under the sleeper, and there is no sleeper in the sleeper on the sleeper.

A Losing Joke.

A prominent physician of Pittsburgh said okingly to a lady patient who was complaining of her continued ill health, and of his in-ability to cure her, "try Hop Bitters!" The lady took it in earnest and used the Bitters from which she obtained permanent health. She now laughs at the doctor for his joke, but he is not so well pleased with it, as it cost him a good patient.—Harrisburg Patriot.

REV. Dr. Bogos believes in church debts, because, he says, they increase the interest.

Personal. The Voltaic Belt Co., Marshall, Mich., will send Dr. Dye's celebrated Electro-Voltaic Belts and Appliances, on trial for thirty days, to men (young or old) who are afflicted with nervous debility, lost vitality and kindred troubles, guaranteeing complete restoration of vitality and manhood. Address as above. N. B.-No risk is incurred, as thirty days trial is allowed.

A CAREFUL man will never attempt to sit down at table when the chair is not there.

If you feel duli, drowsy, debilitated, have frequent headache, mouth tastes bad, poor appetite, tongue coated, you are suffering from to:pid liver, or "biliousness." Nothing will cure you so speedly and permanently as Dr. Pierce's "Golden Medical Discovery." By all

"I HAVE a fresh cold," said a gentleman to his acquaintance. "Why do you have a fresh one! Why don't you have it cured!"

The Bilious. dyspeptic or constipated, should address, with

In some respects the gentler sex far sur

Wgo has not seen the fair, fresh young girl

transformed in a few months into the pale, haggard, dispirited woman? The sparkling eyes are dimmed, and the ringing laugh heard of the system which Dr. Pierce's "Favorite Prescription" would remedy in a short time. Remember, that the "Favorite Prescription" will unfailingly cure all "female weaknesses," and restore health and beauty. By all druggists. Send three stamps for Dr. Pierce's treatise on Diseases of Women (96 pages). Address World's Medical Association, Buffalo, N.Y.

"How sensibly your little boy talks!" ex-claimed Mrs. Smith. "Yes," replied Mrs. Brown; "he hasn't been among company yet."

****Slow and steady wins the race." Steadily, but not slowly, Kidney-Wort is distancing all competition for universal popularity and usefulness. This celebrated remedy can now be obtained in the usual dry vegeta-ble form, or in liquid form. It is put up in the latter way for the especial convenience of those who cannot readily prepare it. It will be found very concentrated and will act with equal efficiency in either form. Read adver-

TEACHERS wanted for fall and winter vacancies. Address, with stamp for application form, Teachers' Agency, Cincinnati, O.

"No you don't; you must pay as you go!"
exclaimed the landlord, as he caught an impecunious boarder trying to skip away.

Make your old things look like new by using the Diamond Dyes, and you will be happy. Any of the fashionable colors for 10 cents.

"Don't put in no muskeeter nettin' for me," said Aunt Hannah. "I don't want to breathe no strained air."—Boston Transcript. STRAIGHTEN your old boots and shoes with Lyon's Patent Heel Stiffeners, and wear them again. Sold by shoe and hardware dealers. SKINNY MEN. "Wells' Health Renewer" re-stores health and vigor, cures Dyspersia. \$1.

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CORN-No. 2	84	@	
OATS-Western Mixed	60	െ	62
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WHEAT-No.2 Spring	5 00	0	7 00
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No. 2 Red	98		99
NO. 2 Reuk			77
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OATS-No.2	62	0	63
RYE	65	0	66
PORK-New Mess	20 50	0	21 00
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	2 50 7 90		8 00
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	77	0	78
" No. 3		6	66
" No. 3	65		95
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FLIES, roaches, ants, bed-bugs, rats, mice, crows, cleared out by "Rough on Rats." 15c.

CALL me an octagon! said Mrs. Parting-ton; why, the next thing you will call me a centurion, a relic of antipathy, and send me

Use Redding's Russia Salve in the house and use Redding's Russia Salve in the stable. Try it.

What constitutes a revolution of the earth? First comes the spring, then the summer set and the fall. Needless to go win-

Wakefield's Blackberry Balsam, for diarrhea.

NATIONAL YEAST never fails; always use it. TRY the new brand, "Spring Tobacco."

Bitters extirpates dyspepsia with great-er certainty and promptitude than any known remedy, and is a most genia invigorant, appetizer and aid to secretion. These are not empty assertions, as thous ands of our country men and women who have experienced its effects are aware, but are backed up by ir-refragable proofs. The Bitters also give a healthrui stimulus to the urinary or-gans. For sale by all Druggists and Deal-ers cenerally.

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FEVER and AGUE Or CHILLS and FEVER.

The proprietor of this celebrated medicine justly claims for it a superiority over all remedies ever offered to the public for the BAFE, CERTAIN, SPEEDY and PERMANENT cure of Ague and Fever, or Chills and Fever, whether of short or long standing. He refers to the entire Western and Southern country to bear him testimony to the truth of the assertion that in no case whatever will it fail to cure if the directions are strictly followed and carried out. In a great many cases a single dose has been sufficient for a cure, and whole families have been cured by a single bottle, with a perfect restoration of the general health. It is, however, prudent, and in every case more cerdoses for a week or two after the disease has been checked, more especially in difficult and long-standing cases. Usually this medicine will not require any aid to keep the bowels in good order. Should the patient, however, require a cathartic medicine, after having taken three or four doses of the Tonic, a single dose of BULL'S VEGETABLE FAMILY PILLS will be sufficient.

The genuine SMITH'S TONIC SYRUP must have DR.JOHN BULL'S private stamp on each bottle. DR. JOHN BULL only has the right to manufacture and sell the original JOHN J. SMITH'S TONIC SYRUP, of Louisville, Ky. Examine well the label on each bottle. If my private stamp is not on each bottle do not purchase, or you will be deceived.

DR. JOHN BULL, Manufacturer and Vender of SMITH'S TONIC SYRUP. **BULL'S SARSAPARILLA.**

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KIDNEY-WORT IS A SURE CURE for all diseases of the Kidneys and -LIVER-

It has specific action on this most important organ, enabling it to throw off torpidity and inaction, stimulating the healthy secretion of the Bile, and by keeping the bowels in free

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Walaria If you are suffering from malaria, have the chills, are bilious, dyspeptic, or constipated, Kidney-Wort will surely relieve and quickly cure.

In the Spring to cleanse the System, every one should take a thorough course of it. 4- SOLD BY DRUCCISTS. Price \$1. KIDNEY-WORT

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It contains nearly 300 fine portraits and engravings of battles and other historical scenes, and is the most complete and valuable history ever published. It is sold by subscription only, and Agents are wanted in every county. Send for circulars and extra terms to Agents. NATIONAL PUBLISHING Co., St. Louis, Mo.

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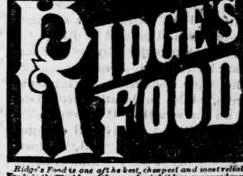
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